

BOTTOM DRAINAGE IMPROVEMENTS FOR THE CITY OF RICHMOND HILL BRYAN COUNTY, GEORGIA DATE: MAY 31, 2019

SHEET INDEX:
DESCRIPTION

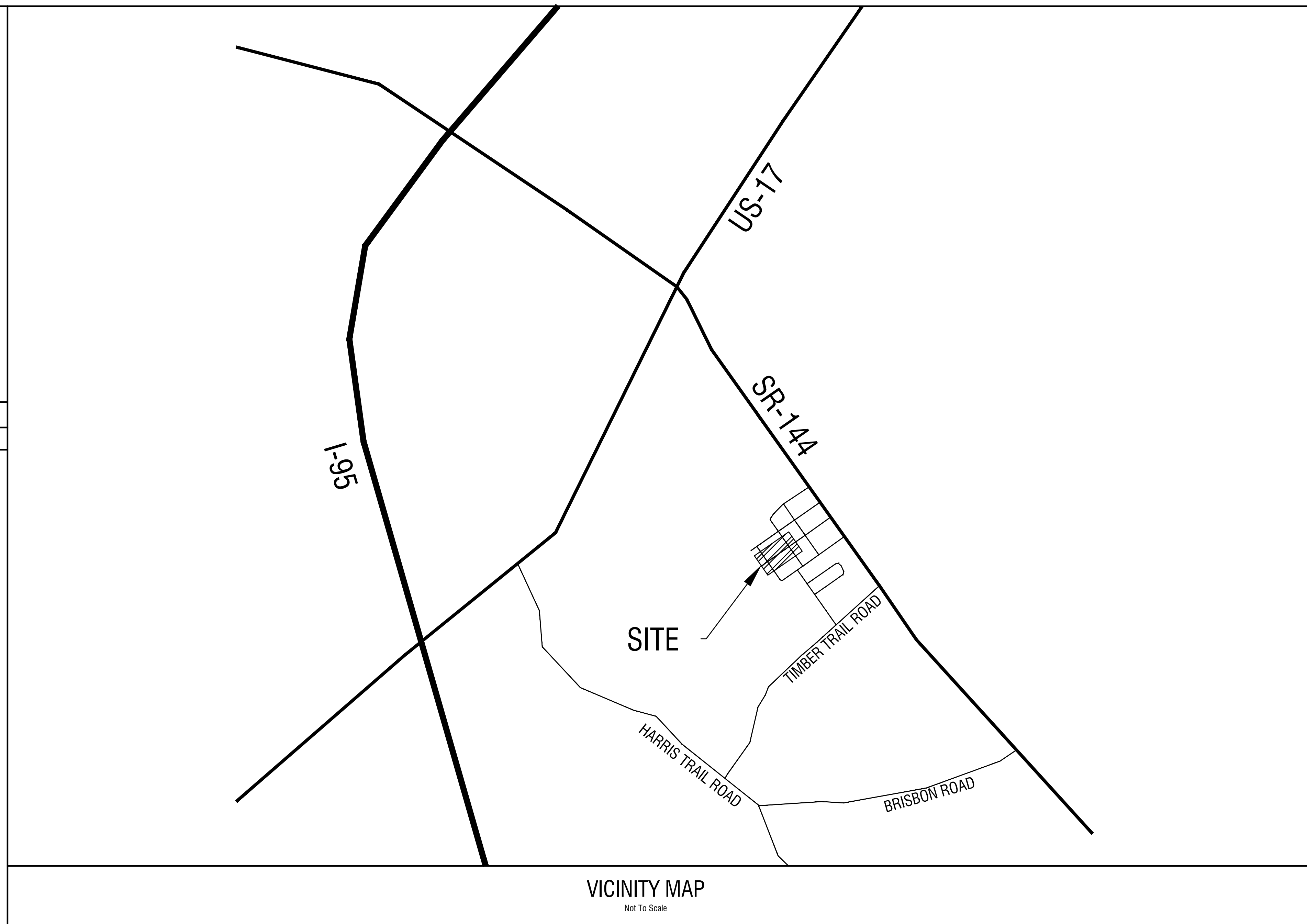
1. EXISTING CONDITIONS & DEMOLITION PLAN
2. GRADING PLAN
3. EROSION CONTROL PLAN
4. EROSION CONTROL DETAILS

SHEET

- SHEET C100
SHEET C200
SHEET C300
SHEET C301

DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		
UNDERGROUND WATER LINE		
FORCE MAIN		
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE		
UNDERGROUND TELEPHONE CONDUIT		
UNDERGROUND GAS LINE		
DITCH CENTERLINE		
SPOT ELEVATION		
TOP OF CURB ELEVATION		
FIRE HYDRANT		
SEWER MANHOLE		
WATER VALVE		
TELEPHONE MANHOLE		
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH		

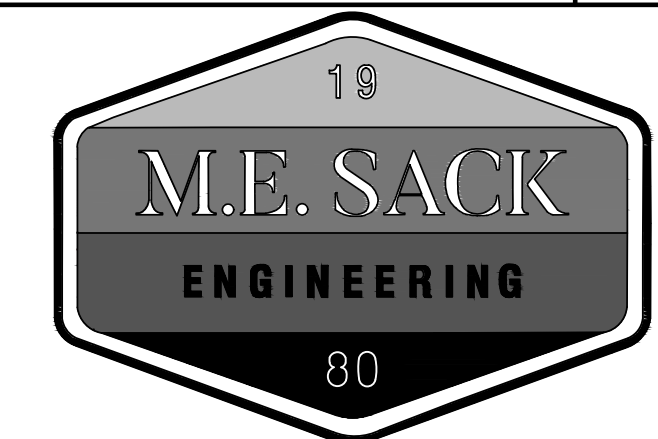
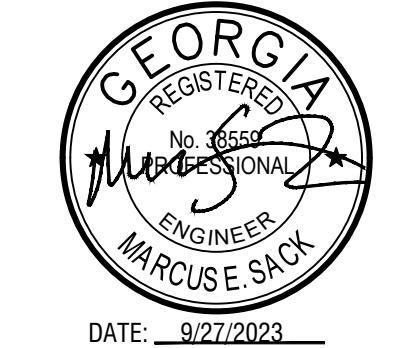


**Know what's below.
Call before you dig.**

OWNER:
CITY OF RICHMOND HILL
85 RICHARD R, DAVID DRIVE
RICHMOND HILL, GA 31324
912-756-3641
INFO@RICHMONDHILL-GA.GOV

24 HOUR CONTACT:
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10375 FORD AVENUE
UNIT A-2
RICHMOND HILL, GA 31324

GENERAL NOTES

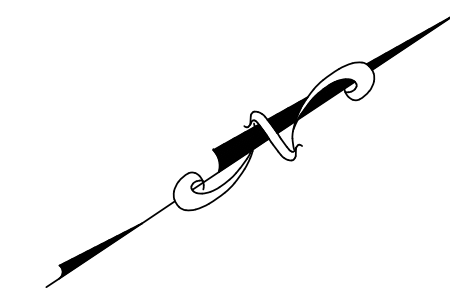
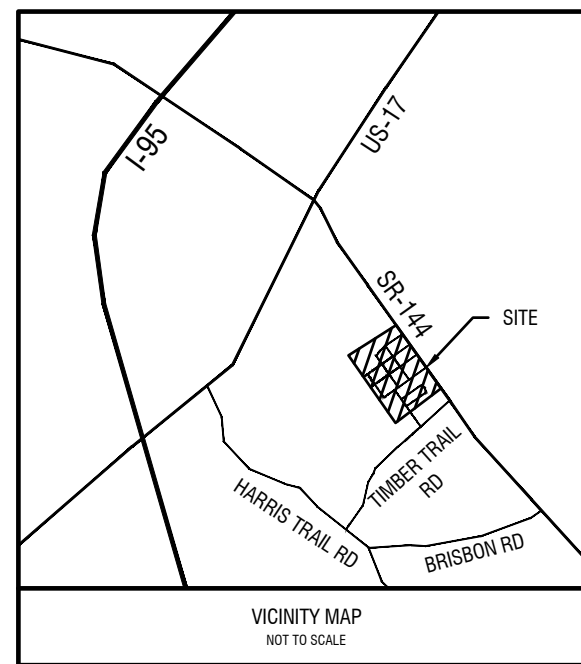
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

REVISION NO.	DATE	DESCRIPTION

JOB NO. 2023-63PRJ

COVER SHEET

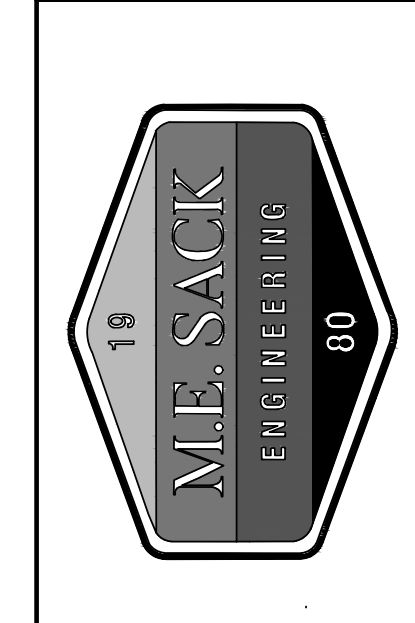
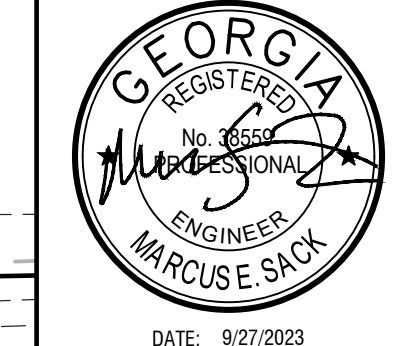
PLOT DATE: September 27, 2023



REVISIONS:

NO.	DESCRIPTION

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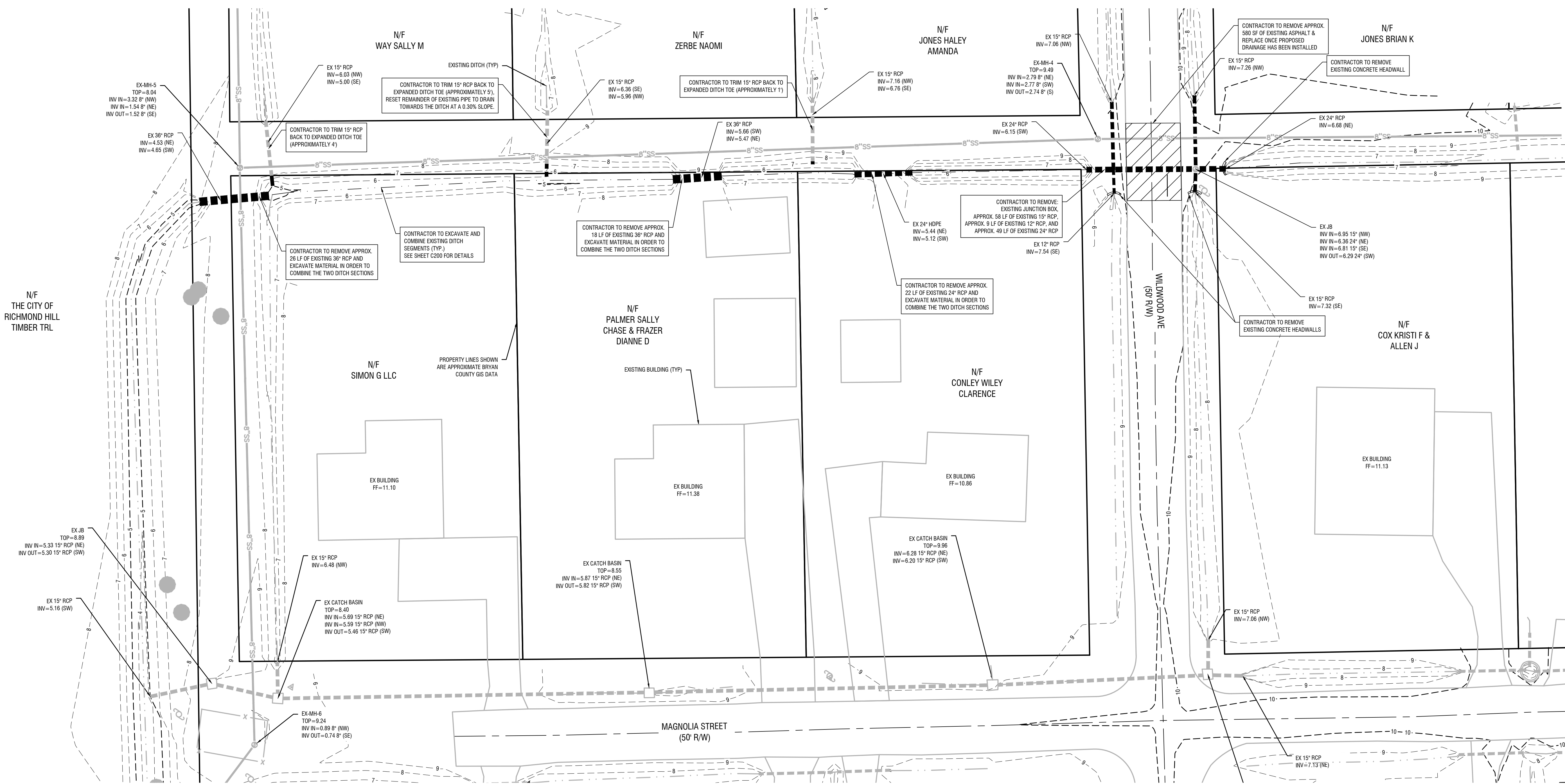


MUNICIPALITY:
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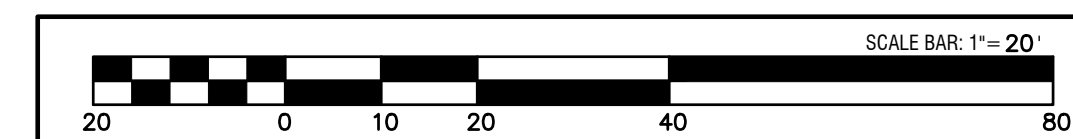
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NOTE:
 ALL REMOVED PIPE, CONCRETE, PAVEMENT, AND MATERIALS
 TO BE DISPOSED OF IN AN APPROVED OFFSITE LOCATION.

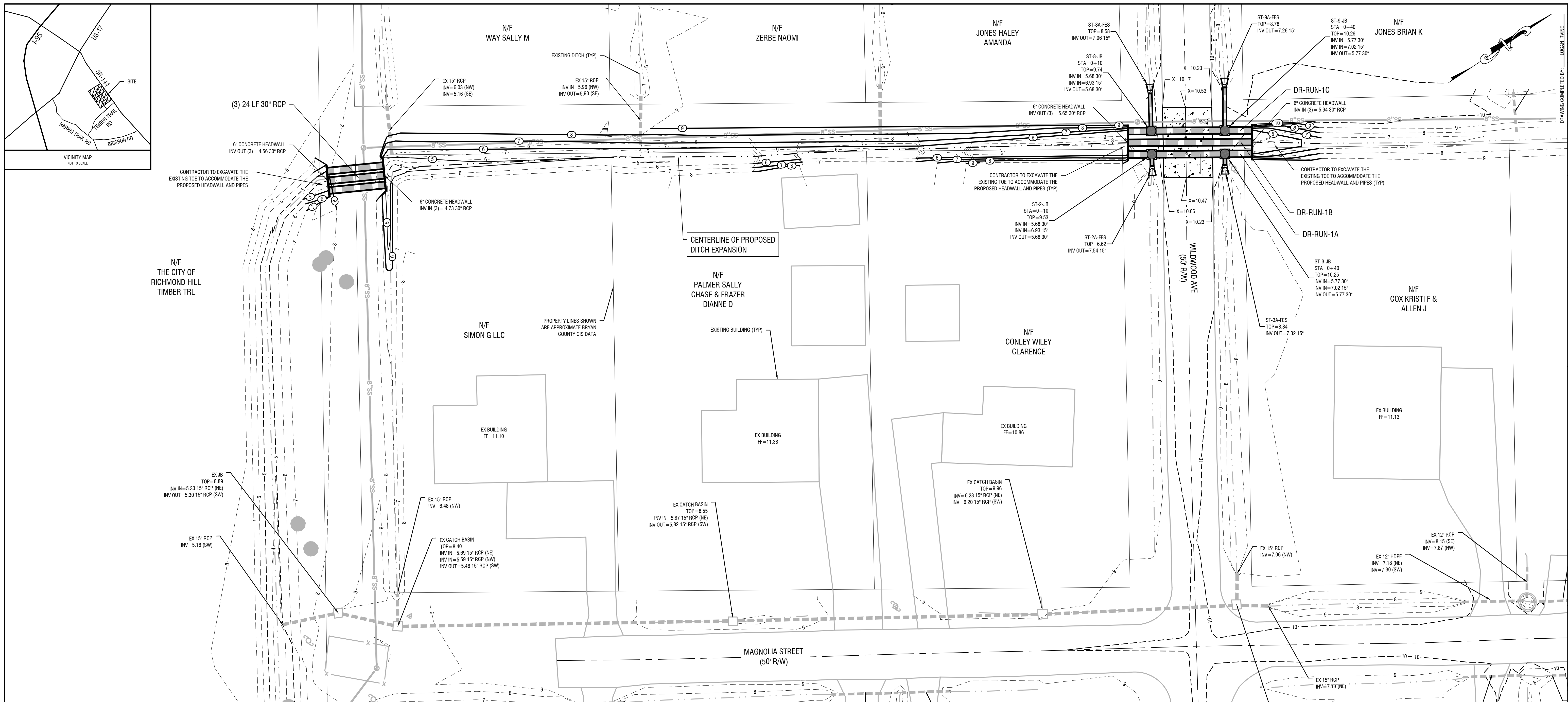


**Bottom Drainage
 Improvements**

EXISTING
 CONDITIONS &
 DEMOLITION PLAN

C100

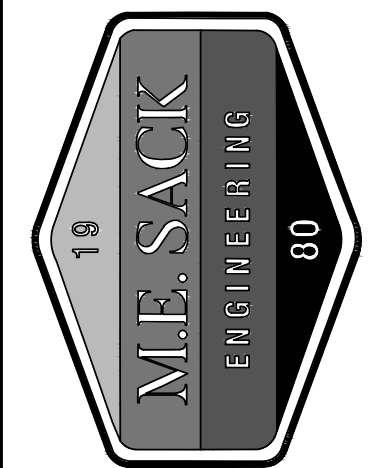
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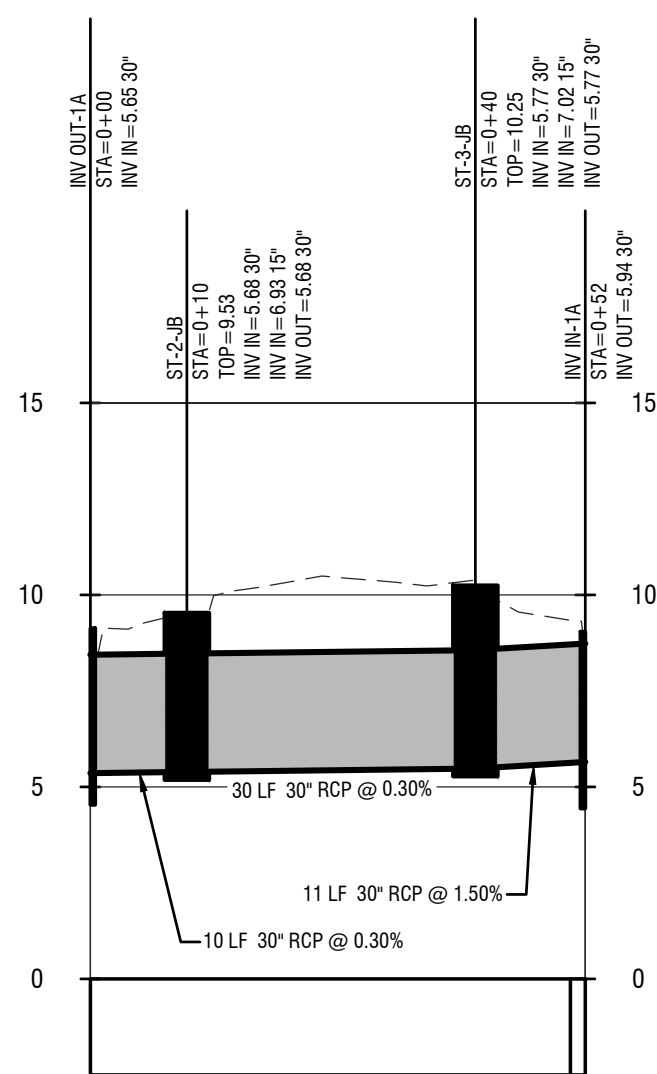
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GRADING NOTES:

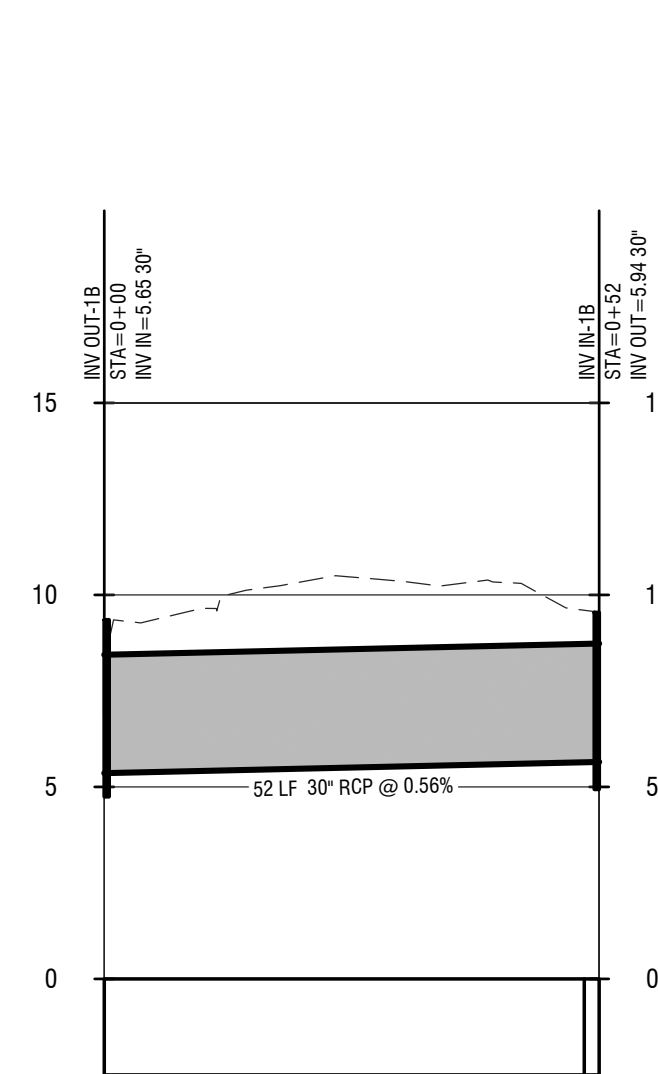
1. CONTRACTOR SHALL EXCAVATE DITCH DEPTHS TO ELEVATIONS NECESSARY TO ACHIEVE POSITIVE DRAINAGE THROUGHOUT THE DITCH GIVEN THE PROPOSED INVERT ELEVATIONS SPECIFIED BY THESE PLANS.
2. PROPOSED DRAINAGE BELOW WILDWOOD AVE TO BE INSTALLED WITH A MINIMUM 1.5% COVERAGE.
3. ASPHALT REMOVED FOR DRAINAGE INSTALLATION TO BE REPLACED TO MATCH EXISTING GRADE. SEE PAVEMENT DETAIL THIS SHEET FOR PAVEMENT SPECS.
4. CONTRACTOR TO USE 6" THICK 3,500 PSI CONCRETE FOR HEADWALL INSTALLATIONS WHERE APPLICABLE.
5. CONTRACTOR TO PROVIDE A 10' WIDE ACCESS PATH IN BETWEEN EXPANDED DITCH TOP AND THE BACK OF THE LOTS NORTHWEST OF THE DITCH FOR MAINTENANCE.

DITCH TOE EXPANSION NOTES:

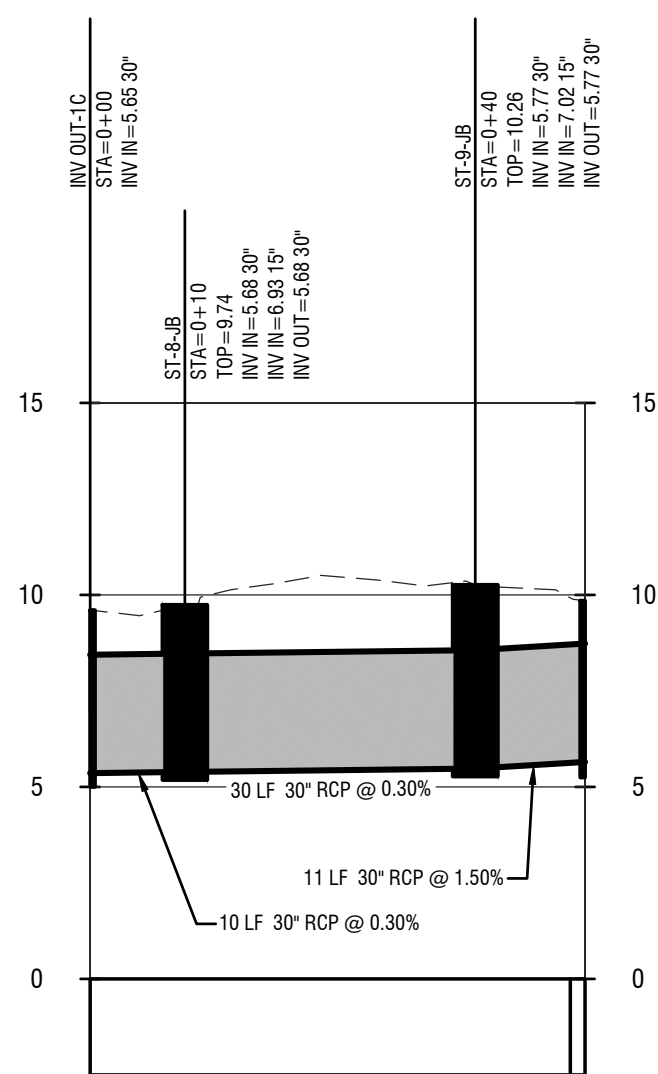
1. CONTRACTOR SHALL EXCAVATE THE TOE OF THE EXISTING DITCH THROUGHOUT THE SEGMENT REPRESENTED ON THIS SHEET BY THE "CENTERLINE OF PROPOSED DITCH EXPANSION". EXPANDING THE TOTAL WIDTH OF THE TOE UP TO 4' AS MEASURED FROM THE EXISTING SOUTHEASTERN TOE. SEE PROFILE FOR TYPICAL DITCH CROSS SECTION FOR REFERENCE.
2. THE TOE WIDTH SHALL ONLY BE EXPANDED TO WIDTHS WHERE A 3:1 MAXIMUM SLOPE IS ATTAINABLE WHEN TYING THE NORTHWESTERN DITCH BANK BACK TO EXISTING GRADE WITHOUT INTERFERING WITH THE EXISTING 8" SEWER LINE RUNNING PARALLEL TO THE DITCH.
3. CONTRACTOR SHALL EXCAVATE MINIMAL MATERIAL FROM THE SOUTHEASTERN SIDE OF THE DITCH TO FIT THE PROPOSED DRAINAGE STRUCTURES AND ENSURE POSITIVE DRAINAGE ONLY.



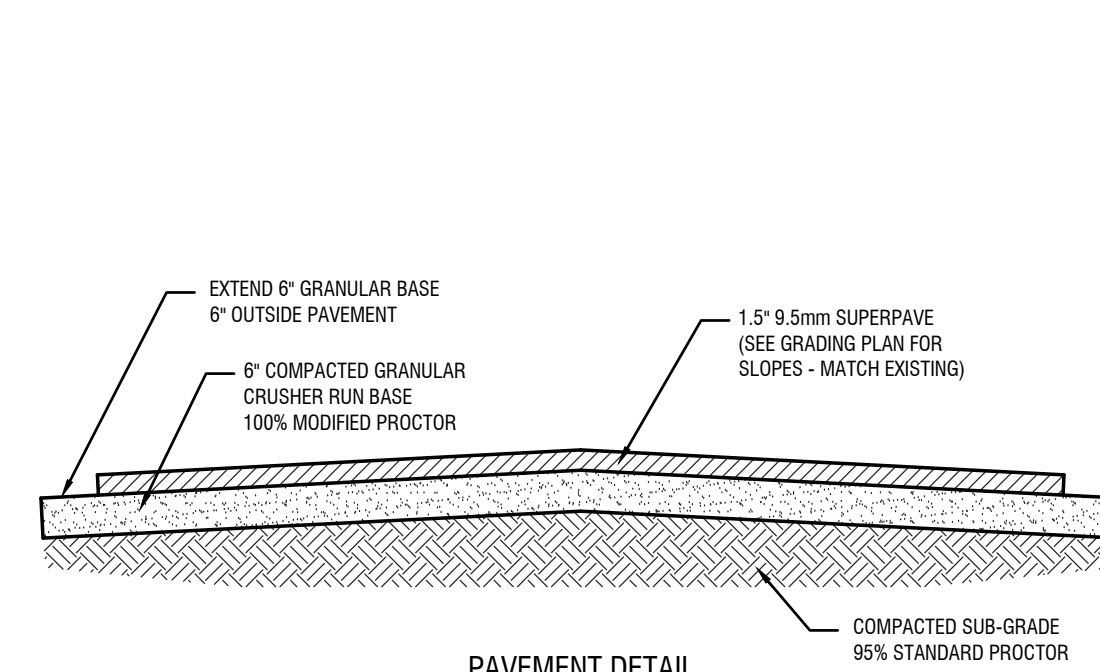
DR-RUN-1A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=20'



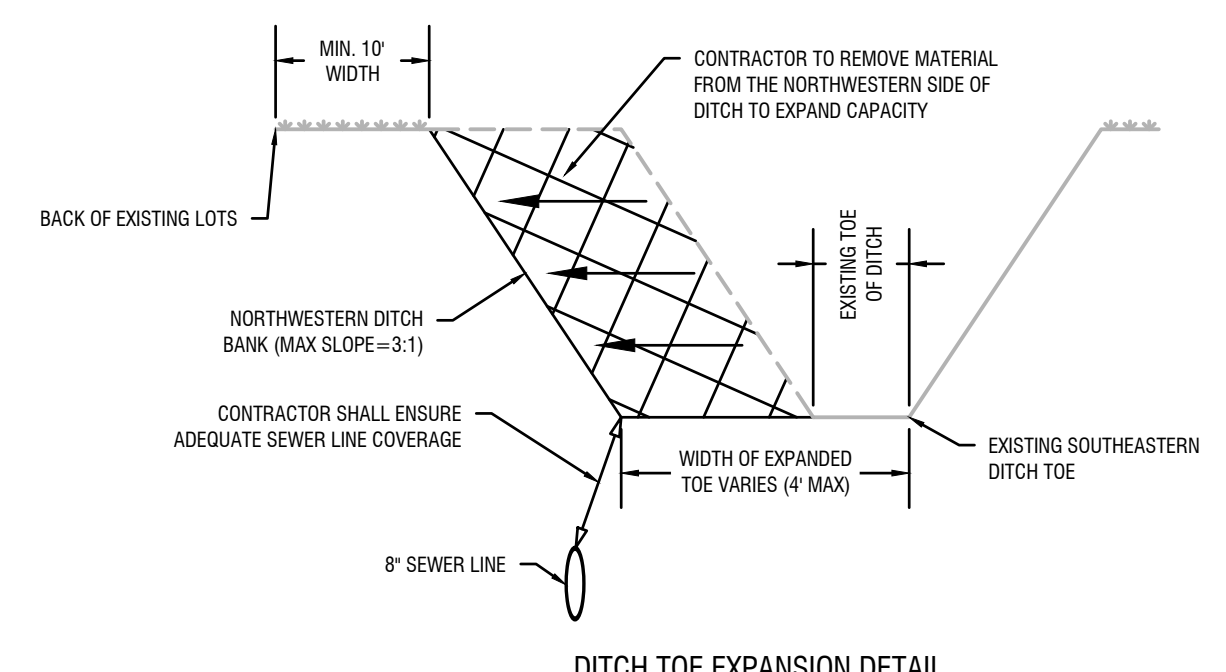
DR-RUN-1B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=20'



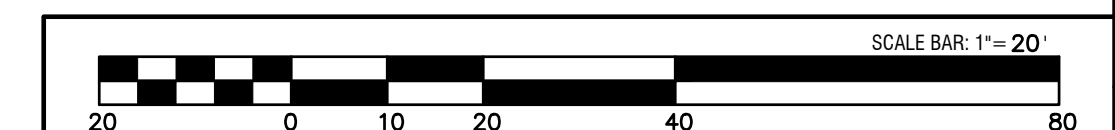
DR-RUN-1C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=20'



PAVEMENT DETAIL
N.T.S.

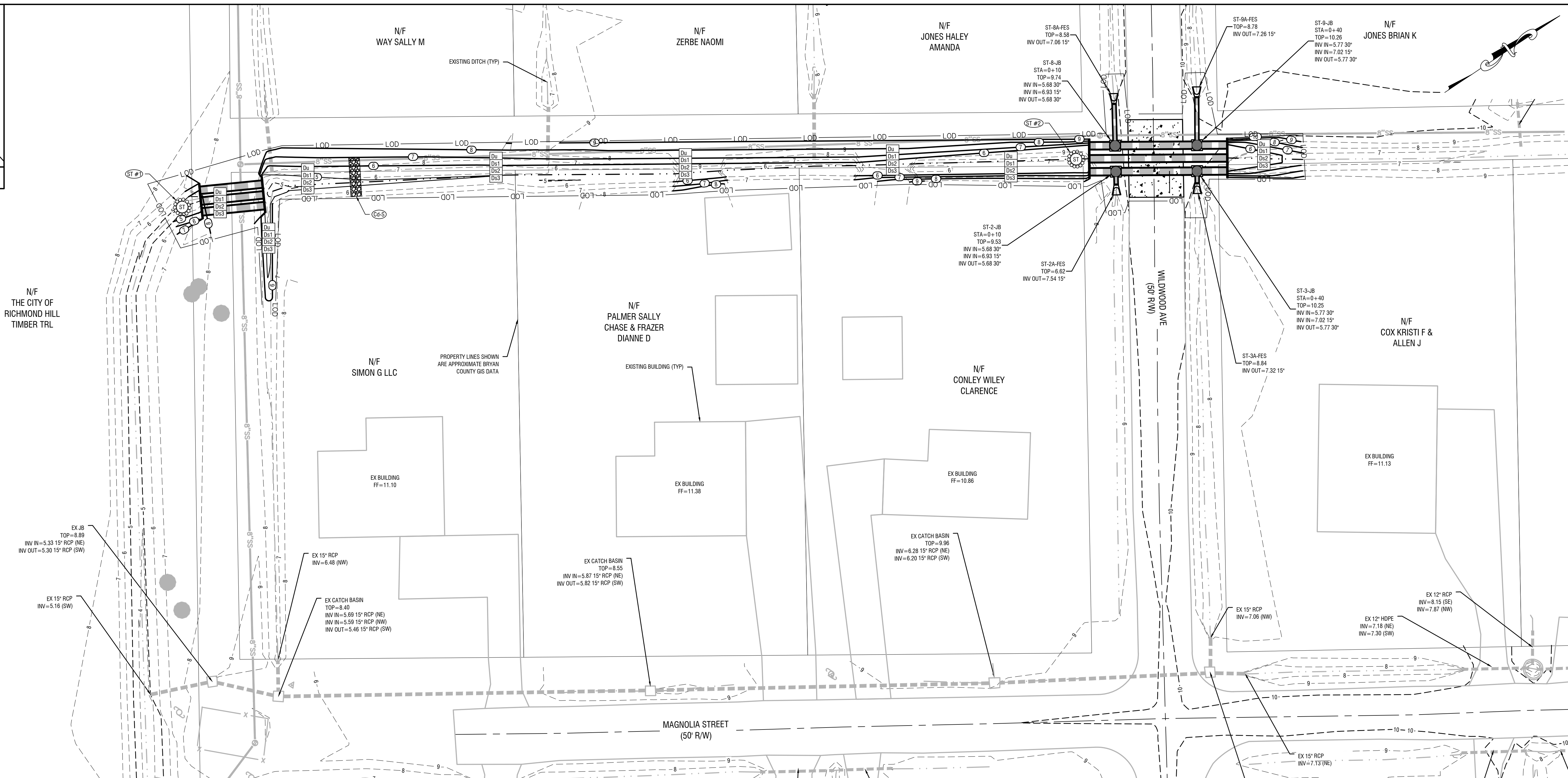
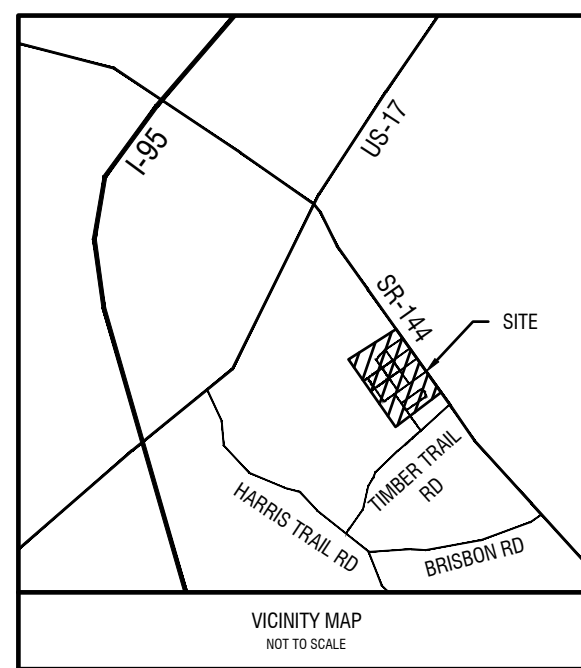


DITCH TOE EXPANSION DETAIL
N.T.S.



GRADING PLAN

C200

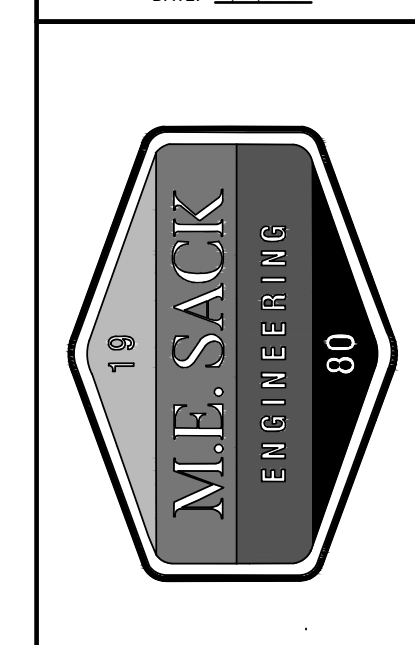
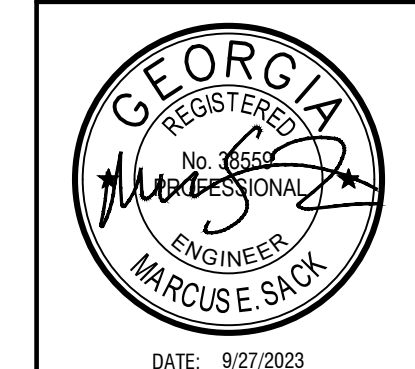


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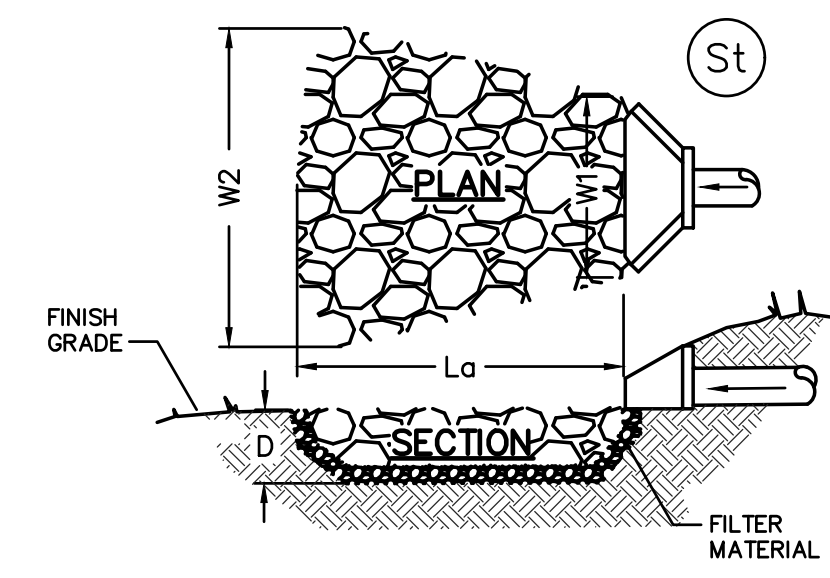


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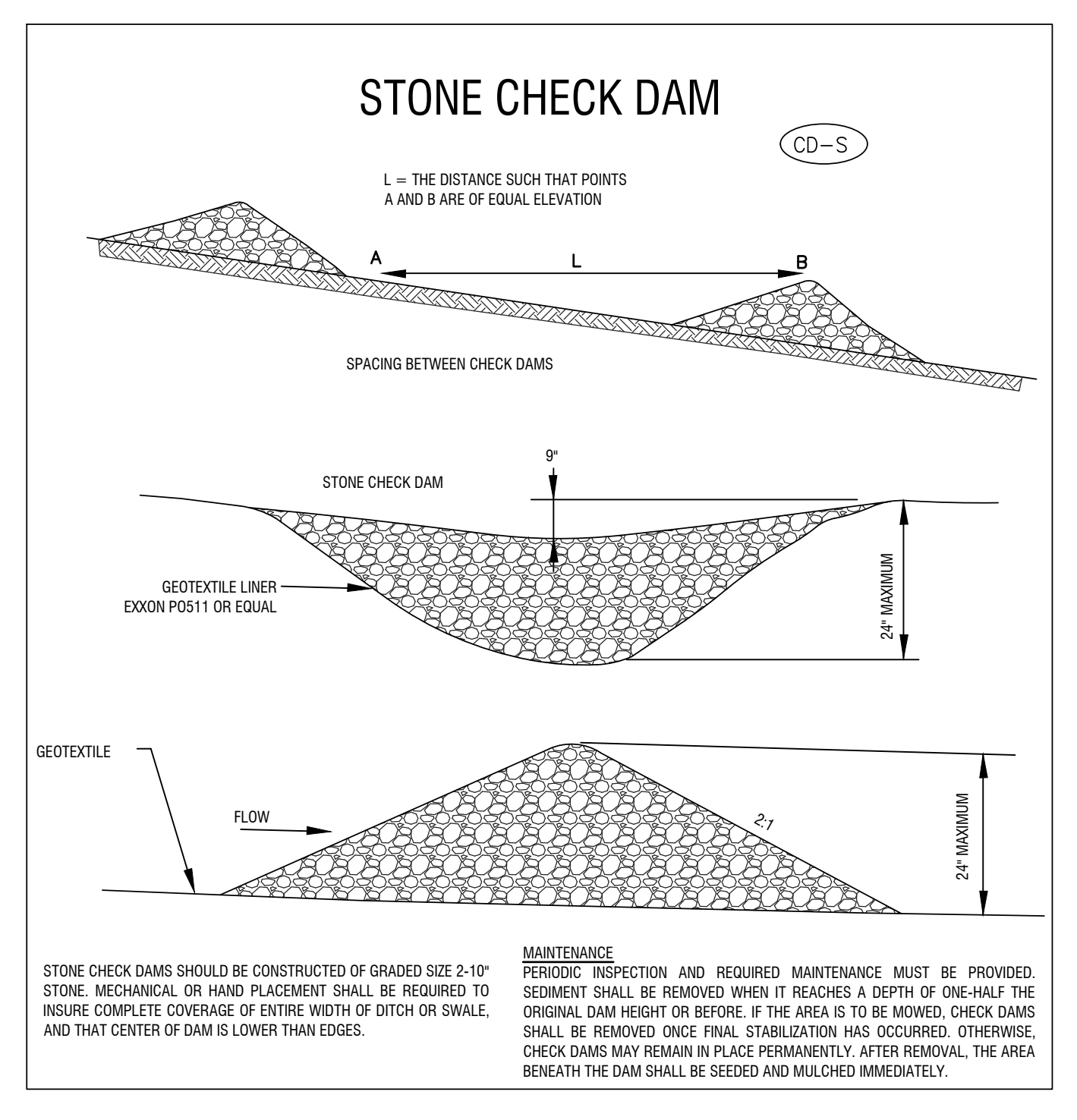
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- NOTES:**
1. REFER TO STORM DRAIN OUTLET PROTECTION CHART FOR DIMENSIONING INFORMATION.
 2. d50 = MIN. STONE DIAMETER
 3. d_{max} = MAX. STONE DIA. = (1.5 x d50)
 4. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6".
 5. EXTEND THE RIPRAP APRON UP THE CHANNEL BANK TO THE TOP OF THE CHANNEL BANK.
 6. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION. FILTER BLANKET SHALL CONSIST OF A GRADED GRAVEL LAYER OR SYNTHETIC FILTER CLOTH. FILTER BLANKET IS INTENDED TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN RIPRAP.
 7. RIPRAP APRON AND FILTER MATERIAL SHALL BE WELL GRADED, LEVEL, AND EXTENDED TO ACHIEVE MAX. STABILITY.

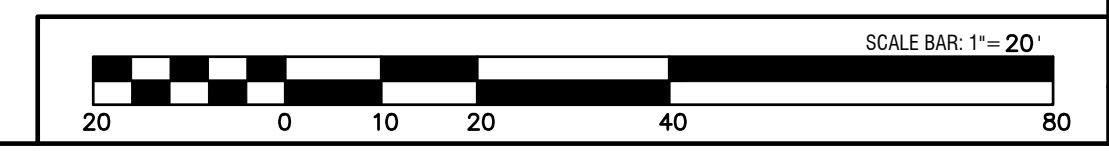
**MINIMUM TAILWATER
 STORM DRAIN OUTLET PROTECTION
 N.T.S.**

STORM OUTLET PROTECTION					
STRUCTURE NO.	La	W1	W2	d50	D
ST #1	10'	10'	10'	6"	13.5"
ST #2	10'	12.5'	12.5'	6"	13.5"



SITE INFORMATION

TOTAL PROJECT AREA = 0.22 AC
 TOTAL DISTURBED AREA = 0.22 AC



**Bottom Drainage
 Improvements**

**EROSION
 CONTROL
 PLAN**

C300

FILE NO: 2023-63
 PLOT DATE: September 27, 2023

